

your average emission level under subpart H of this part. In your request, you must demonstrate that you will still be able to comply with the applicable average emission standards as specified in subparts B and H of this part.

(2) You may ask to lower the FEL for your engine family after the start of production only when you have test data from production vehicles indicating that your vehicles comply with the lower FEL. You may create a separate subfamily with the lower FEL. Otherwise, you must use the higher FEL for the family to calculate your average emission level under subpart H of this part.

(3) If you change the FEL during production, you must include the new FEL on the emission control information label for all vehicles produced after the change.

[70 FR 40494, July 13, 2005]

§ 1051.230 How do I select engine families?

(a) Divide your product line into families of vehicles that are expected to have similar emission characteristics throughout the useful life. Except as specified in paragraph (f) of this section, you must have separate engine families for meeting exhaust and evaporative emissions. Your engine family is limited to a single model year.

(b) For exhaust emissions, group vehicles in the same engine family if they are the same in all the following aspects:

- (1) The combustion cycle.
 - (2) The cooling system (liquid-cooled vs. air-cooled).
 - (3) Configuration of the fuel system (for example, port fuel injection vs. carburetion).
 - (4) Method of air aspiration.
 - (5) The number, location, volume, and composition of catalytic converters.
 - (6) Type of fuel.
 - (7) The number, arrangement, and approximate bore diameter of cylinders.
 - (8) Numerical level of the emission standards that apply to the vehicle.
- (c) For evaporative emissions, group vehicles in the same engine family if fuel tanks are similar and fuel lines are

similar considering all the following aspects:

(1) Type of material (including additives such as pigments, plasticizers, and UV inhibitors).

(2) Emission-control strategy.

(3) Production methods. This does not apply to differences in production methods that would not affect emission characteristics.

(d) You may subdivide a group of vehicles that is identical under paragraph (b) or (c) of this section into different engine families if you show the expected emission characteristics are different during the useful life.

(e) You may group vehicles that are not identical with respect to the things listed in paragraph (b) or (c) of this section in the same engine family, as follows:

(1) You may group such vehicles in the same engine family if you show that their emission characteristics during the useful life will be similar.

(2) If you are a small-volume manufacturer, you may group engines from any vehicles subject to the same emission standards into a single engine family. This does not change any of the requirements of this part for showing that an engine family meets emission standards.

(f) You may divide your product line into engine families based on a combined consideration of exhaust and evaporative emission-control systems, consistent with the requirements of this section. This would allow you to use a single engine-family designation for each engine family instead of having separate engine-family designations for exhaust and evaporative emission-control systems for each model.

(g) Select test engines from the engine family as described in 40 CFR 1065.401. Select test components related to evaporative emission-control systems that are most likely to exceed the applicable emission standards. For example, select a fuel tank with the smallest average wall thickness (or barrier thickness, as appropriate) of those tanks you include in the same family.

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